

**Alaska Energy Authority & Denali Commission
Emerging Energy Technology Fund Progress Report**

Grant Number: 74310049

Project Title: Small Community Self Regulating Grid – Tuntutuliak

Grantee: Intelligent Energy Systems

Reporting Period: Q1 2014 January 1, 2014 to March 31, 2014

Deliverables Submitted: 1. ETS Test Unit report from UAF/INE submitted to AEA. 3. Instrumentation plan submitted 4/3/14 to AEA. Deliverable 2 and 4 in progress.

Budget: The project remains completable under existing grant funds. Revised budget category totals and milestones have been submitted to program manager for acceptance into the grant document. All future progress reports will reflect the change of milestones.

Schedule Status: Project is working under schedule for new timeline submitted with budget and milestone revision. In order to accommodate a full year of system monitoring, revised project closeout should be September 2015.

Percent Complete: 40% project completion overall.

Miles tone	Task		Deliverables	Progress Status
1		Purchase components for controller upgrades and software license		100% Complete
2		Complete controller programming for SRG		75% Complete
3		Test single ETS unit controller for frequency response at ACEP test facility	1. ACEP test results	100% complete.
4		Develop system instrumentation plan	2. System one line & 3. Instrumentation plan	90% complete
5		Purchase data collection instrumentation		50% complete
6		Install data collection instrumentation and baseline data collection	4. Estimated installation costs	50% complete
7		Purchase installation and commissioning components		In progress
8		3-phase load balancing system		
9		Install and commission SRG system	5. Commissioning report	
10		Monitor system in centralized and distributed frequency controls modes and optimize system		

		efficiency		
	11	Economic analysis on stove consumption	6. Economic analysis	In progress
	12	Data evaluation and draft project report	7. Draft project report	
	13	Final project report	8. Final report	

Work Progress: Continual development of the Instrumentation plan and data collection strategy. Additional ETS stove installation in Tunt by local utility.

Future Work: Installation of data collection materials.
Installation of monitoring equipment, baseline power quality studies and implementation of data collection completion by April 31.

Project remains on budget with extended timeline and no significant problems foreseen. No freight delivery issues due to barge and transportation schedules.